

## Abstract

The present invention relates to a digital signal transmission system and method, a transmission apparatus and method, and a reception apparatus and method that can reproduce an audio reference clock of a plurality of different frequencies from a video reference clock. A pixel clock is divided by a divider 51 into a signal of a constant frequency and the phases are compared by a phase comparator 52. An Fs decoder 32 determines P and Q, which are division ratio information, based on Fs information representing the frequency of an audio clock transmitted from a transmitting side and supplies them to a variable divider 55 and a variable divider 56. As a result, even if the frequency of the audio clock changes, the oscillation frequency of the a VCO unit 54 can be kept constant, and the variable divider 56 can output a signal of a constant frequency to keep constant the frequency of the signal transmitted to the phase comparator 52. The present invention is applicable to an AV signal transmission/reception apparatus.